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WHAT IS CLAIMED IS:

1. An image coding apparatus comprises:

a pixel value changing section for changing a pixel 5 value of a current pixel in an image data;

an error distributing section for distributing an error value produced in the pixel value changing section to neighbour pixels; and

an image coding section for coding the pixel value which is changed by the pixel value changing section,

wherein the pixel value changing section changes the pixel value so as to reduce a code quantity in the image coding section.

- 15 2. The apparatus according to claim 1, wherein the image coding section employs lossless coding.
 - 3. The apparatus according to claim 1, wherein the image coding section employs predictive coding.

4. The apparatus according to claim 1, wherein the error distributing section distributes an error by an error diffusion method.

25 5. The apparatus according to claim 1, wherein the

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error distributing section distributes an error by a minimum average error method.

- 6. The image coding apparatus claim 1, wherein the pixel value changing section does not perform a change which produces an error that is not less than a predetermined value.
 - 7. The apparatus according to claim 1, wherein after the pixel value change is performed on a whole of the image data, the image coding section performs coding.
 - 8. The apparatus according to claim 1, wherein the image coding section comprises:

image inputting means for inputting an image;

plural pixel value predicting means for predicting a

pixel value of a current pixel which is in an image input

from the image inputting means and which is an object to

be coded by different predicting techniques;

prediction error calculating means for calculating an error between the pixel value of the current pixel which is in the image input from the image inputting means and a predicted value which is predicted by a predetermined predicting technique;

coincidence judging means for judging whether each of

10

the pixel values which are respectively predicted by the plural pixel value predicting means coincides with the pixel value of the current pixel;

selecting means for, on the basis of a judgement output of the coincidence judging means, outputting one of identification information for identifying pixel value predicting means of which the predicted pixel value is judged by the coincidence judging means to attain coincidence and the error which is calculated by the prediction error calculating means;

error coding means for coding the identification information and the error which are output by the selecting means; and

outputting means for outputting a code which is coded by the coding means.

9. An image coding and decoding apparatus comprising:

a pixel value changing section for changing a pixel value of a current pixel in an image data;

an error distributing section for distributing an error value produced in the pixel value changing section to neighbour pixels;

an image coding section for coding the pixel value 25 which is changed by the pixel value changing section; and

10

an image decoding section for decoding the code of the image coding section,

wherein the pixel value changing section changes the pixel value so as to reduce a code quantity in the image coding section.

10. An image coding method comprising the steps of: changing a pixel value of a current pixel in an image data;

distributing an error value produced in the pixel value changing step to neighbour pixels; and

coding the pixel value which is changed by the pixel value changing step,

wherein in the pixel value changing step, the pixel value is changed so as to reduce a code quantity in the image coding step.